EQUIPMENT EVALUATIONS LEADING TO DOD'S NEXT GENERATION OF PEST MANAGEMENT EQUIPMENT 2004-2010

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DISCLAIMER

THE VIEWS EXPRESSED IN THIS PRESENTATION ARE THOSE OF THE AUTHOR AND DO NOT NECESSARILY REFLECT THE OFFICIAL POLICY OR POSITION OF THE DEPARTMENT OF THE NAVY, DEPARTMENT OF DEFENSE, OR THE U.S. GOVERNMENT.

NAVY ENTOMOLOGY CENTER OF EXCELLENCE (NECE)

TESTING & EVALUATION (T&E)

EQUIPMENT EVALUATION FOR THE AFPMB

- LARVASONIC SD 2001
  - EVALUATION DONE IN CONJUNCTION W/ JAX MCD & USDA CMAVE.
  - PELIMINARY STUDIES SHOW POTENTIAL FOR MILITARY USE.
  - EVALUATION ONGOING.

EQUIPMENT EVALUATION FOR THE AFPMB

- TURBAIR ELECTRAFAN 12
  - TO REPLACE THE ULVAFAN MK2 (VMD 63 & 92 um)*.
  - IN CONJUNCTION W/ USDA -AAT.
  - NSN DENIED (VMD 47 & 84 um).

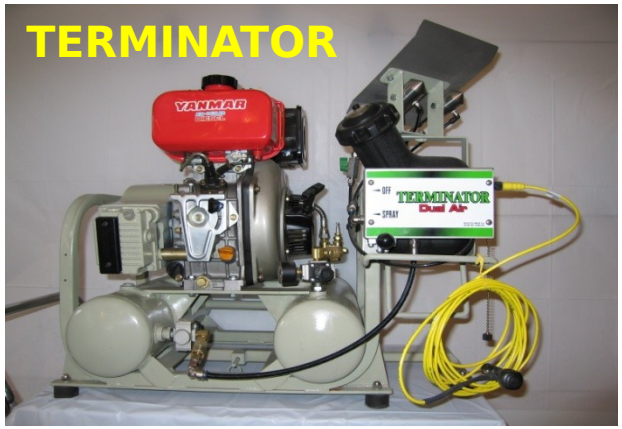
* 0.1% TRITON X & BVA 13, RESPECTIVELY.

EQUIPMENT EVALUATION FOR THE AFPMB

- BIRCHMEIER IRIS KNAPSACK SPRAYER
  - MARINES USE IT FOR PERMETHRIN TREATMENT OF UNIFORMS.
  - NSN 3740-01-543-0676.

EQUIPMENT EVALUATION FOR THE AFPMB

- ELECTROLON BP-2.5™
  - ELECTROSTATIC SPRAYER.
  - IN CONJUNCTION W/ CMAVE.
  - COMPATIBLE W/ THE TERMINATOR (NSN 3740-01-525-7453).
  - NSN DENIED.



EQUIPMENT EVALUATION FOR THE AFPMB

- B&G AEROSOL DELIVERY UNIT.
  - COMPARABLE TO THE WHITMIRE SYSTEM III SINGLE PACK (NSN 3740-01-338-5390).
  - QUICKER AND SIMPLER TO ATTACH TO AEROSOL CANS.
  - NSN 3740-01-561-9633.

B&G AEROSOL DELIVERY UNIT

EQUIPMENT EVALUATION FOR THE AFPMB

- B&G PHOENIX 680 MD- DIESEL ULV FOGGER
  - IN CONJUNCTION W/ JAX MCD.
  - NSN DENIED.

PHOENIX 680 MD

EQUIPMENT EVALUATION FOR THE AFPMB

- ARRO-GUN MOZZIE 250 HO
  - ELECTRIC ULV SPRAYER.
  - IN CONJUNCTION W/ JAX MCD.
  - NSN DENIED.

EQUIPMENT EVALUATION FOR THE AFPMB

- THERMAL FOG APPLICATION EQUIPMENT EVALUATION.
  - ONGOING EVALUTIONS.
  - IN CONJUNCTION W/ USDAA-AAT & USDA-CMAVE.
  - THERMAL FOG RODEO 07; RODEO 08; & RODEO 09.
  - CURTIS DYNA-FOG SILVER CLOUD MODEL 2650: NSN 3740-01-535-8884.

DWFP PROGRAM

SPRAY CHARACTERISTICS OF ULV, FOG, & MIST SPRAYERS TYPICALLY USED IN VECTOR CONTROL (RODEOS); USDSA-AAT.

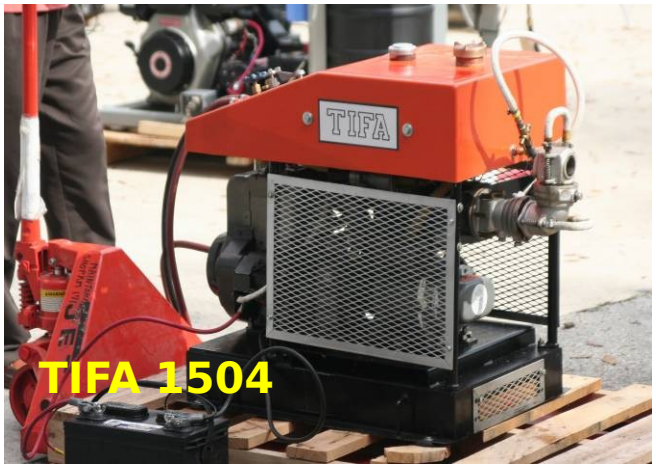
THERMAL FOG RODEO 07:

CHARACTERIZATION OF THERMAL FOGGING EQUIPMENT TYPICALLY USED IN VECTOR CONTROL - DEC O8 JAMCA.

DWFP PROGRAM
DROPLET ANALYSIS OF THERMAL FOG APPLICATION EQUIPMENT
(THERMAL FOG RODEO 07)

DWFP PROGRAM
DROPLET ANALYSIS OF THERMAL FOG APPLICATION EQUIPMENT
(THERMAL FOG RODEO 07)

DWFP
DROPLET ANALYSIS OF THERMAL FOG APPLICATION EQUIPMENT (THERMAL FOG RODEO 07)



TIFA 1504

TIFA 100 E

SWINGTEC SN 50

SWINGTEC SN 101

DWFP PROPGRAM

- EVALUATION OF THE YAMAHA RMAX UNMANNED AERIAL VEHICAL (UAV)/OTHER UAV'S-GRANTS.
  - IN CONJUNCTION W/ REMSPC, DR. J. BROWN, USAF ROBOTICS LAB., USAF AERIAL SPRAY FLIGHT, 910 AIR WING.
  - CONTINUED EVAL. BY USDA-AAT.
  - POTENTIAL MILITARY USE.
  - ONGOING EVALUATION.

DWFP PROGRAM

- ALTERNATE FUEL BACKPACK SPRAYER-GRANT.
  - MANUFACTURER: DORENDORF ADVANCED TECHNOLOGIES (DAT), WINNEBAGO, MN.
  - IN CONJUNCTION W/ ANASTASIA MCD.
  - COMPATIBLE W/ THE TERMINATOR.
  - NSN 374-01-561-9663.

DWFP PROGRAM

- EVALUATION OF COMMERICAL FLY TRAPS.
  - TERMINATOR FLY TRAP (NSN 3740-01-561-9678).
  - FINAL FLIGHT FLY TRAP (NSN 3740-01-561-9686).
  - FINAL FLIGHT FLY LURE (NSN 3740-01-561-9732).
  - IN CONJUNCTION W/ USDA CMAVE.

DWFP PROGRAM

SPRAY CHARACTERISTICS 0F ULV, FOG, & MIST SPRAYERS TYPICALLY USED IN VECTOR CONTROL

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DWFP PROGRAM

EFFICACY OF
ULV VS THERMAL FOG APPLICATIONS
TO CONTROL BITING FLIES IN
NORTHERN FLORIDA, SOUTHERN CALIFORNIA DESERT
HABITATS; CMAVE.

DWFP PROGRAM

- EFFICACY OF BIFENTHRIN TREATED VEGETATION FOR MOSQUITO CONTROL IN STUTTGART, AR AND GAINESVILLE, FL; USDA-CMAVE.
- CANOPY PENETRATION AND DEPOSITION OF BARRIER SPRAYS FROM ELECTROSTATIC AND CONVENTIONAL SPRAYERS – SEP 09 JAMCA; USDA-AAT & USDA-CMAVE.
- EVALUATION OF BARRIER TREATMENTS ON NATIVE VEGETATION IN A SOUTHERN CALIFORNIA DESERT HABITAT; USDA-CMAVE.

DWFP PROGRAM

EFFICACY OF FOAM AND THERMAL FOG APPLICATIONS TO CONTROL ARTHROPODS IN RODENT BURROWS

T&E'S PROJECTS 2004-2010

- DWFP PROGRAM:
  - DEVELOPMENT OF AN ULTRA LOW VOLUME (ULV) NOZZLE CAPABLE OF OPERATING WITH FUELS AVAILABLE ON THE MODERN BATTLEFIELD; DAT- GRANT (06).
  - DEVELOPMENT OF A MIST BLOWER BACKPACK PESTICIDE SPRAYER POWERED BY AN INTERNAL COMBUSTION ENGINE CAPABLE OF OPERATING WITH FUELS AVAILABLE ON THE MODERN BATTLEFIELD; DAT - GRANT (06).
  - FUNCTIONAL FABRICATION AND DEVELOPMENT OF THE BATTLEFIELD ULV BACKPACK SPRAYER NOZZLE AND OPERATIONAL AIR SOURCE; DAT- GRANT (08).

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- **USDA/ARS, CENTER FOR MEDICAL, AGRICULTURAL & VETERINARY ENTOMOLOGY**
- **USDA/ARS, AERIAL APPLICATIONS TECHNOLOGIES**
- **CAMP BLANDING JOINT TRAINING CENTER**
- **COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT**
- **COUNTY OF RIVERSIDE DEPARTMENT OF ENVIRONMENTAL HEALTH**
- **CITY OF JACKSONVILLE MOSQUITO CONTROL DIVISION**
- **ANASTASIA MOSQUITO CONTROL DISTRICT**
- **910 AIRLIFT WING AERIAL SPRAY BRANCH**
- **USAF ROBOTICS LABORATORY**
- **SPECTRUM ELECTROSTATIC SPRAYERS, INC.**
- **SIDES, INC.**
- **UAS OF AMERICA (JACK FROST FOAM)**
- **AMERICAN AG PRODUCTS CORP**
- **ADAPCO**
- **CURTIS DYNA-FOG LTD**
- **CLARKE MOSQUITO CONTROL**
- **B&G CHEMICAL & EQUIPMENT CO**
- **B&G EQUIPMENT CO**
- **LONDON FOG**
- **IGEBA**
- **CITRUSCLOUD**
- **REMSPC SPRAY CONSULTING**
- **ARRO-GUN SPRAY SYSTEMS, LLC**
- **JASMIC**
- **SWINTEC**
- **TIFA**
- **CENTRAL LIFE SCIENCES**
- **TROY BIOSCIENCES, INC**
- **NEW MOUNTAIN INNOVATIONS, INC**
- **ITB CO, INC**
- **DORENDORF ADVANCED TECHNOLOGIES**
- **BUFFALO TURBINE LLC**
- **MICRON SPRAYERS LTD**